

AXCELIS TECHNOLOGIES INC  
Form SC 13D/A  
May 20, 2015

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13D  
(Rule 13d-101)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT  
TO § 240.13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT TO  
§ 240.13d-2(a)

(Amendment No. 4)1

Axcelis Technologies, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value per share  
(Title of Class of Securities)

054540109

(CUSIP Number)

ERIC SINGER  
VERTEX CAPITAL ADVISORS, LLC  
825 Third Avenue, 33rd Floor  
New York, New York 10022

STEVE WOLOSKY, ESQ.  
OLSHAN FROME WOLOSKY LLP  
Park Avenue Tower  
65 East 55th Street  
New York, New York 10022  
(212) 451-2300

(Name, Address and Telephone Number of Person  
Authorized to Receive Notices and Communications)

May 18, 2015  
(Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box " .

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See § 240.13d-7 for other parties to whom copies are to be sent.

1 The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP NO. 054540109

1 NAME OF REPORTING PERSON

Vertex Opportunities Fund, LP

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

WC

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

DELAWARE

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
	8	-0- SHARED VOTING POWER
	9	722,515 SOLE DISPOSITIVE POWER
	10	-0- SHARED DISPOSITIVE POWER

722,515

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

722,515

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

Less than 1%

14 TYPE OF REPORTING PERSON

PN

CUSIP NO. 054540109

1 NAME OF REPORTING PERSON

Vertex Special Opportunities Fund II, LP

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)   
(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

WC, OO

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

DELAWARE

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
		-0-
	8	SHARED VOTING POWER
		4,807,051
	9	SOLE DISPOSITIVE POWER
		-0-
	10	SHARED DISPOSITIVE POWER
		4,807,051

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

4,807,051

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

4.2%

14 TYPE OF REPORTING PERSON

PN

CUSIP NO. 054540109

1 NAME OF REPORTING PERSON

Vertex GP, LLC

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)   
(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

AF

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

DELAWARE

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
	8	-0- SHARED VOTING POWER
	9	722,515 SOLE DISPOSITIVE POWER
	10	-0- SHARED DISPOSITIVE POWER

722,515

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

722,515

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

Less than 1%

14 TYPE OF REPORTING PERSON

OO

CUSIP NO. 054540109

1 NAME OF REPORTING PERSON

Vertex Special Opportunities GP II, LLC

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

AF

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

DELAWARE

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
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	10	-0- SHARED DISPOSITIVE POWER
		4,807,051

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

4,807,051

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

4.2%

14 TYPE OF REPORTING PERSON

OO

CUSIP NO. 054540109

1 NAME OF REPORTING PERSON

Vertex Capital Advisors, LLC

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

AF

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

DELAWARE

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
	8	-0- SHARED VOTING POWER
	9	5,529,566 SOLE DISPOSITIVE POWER
	10	-0- SHARED DISPOSITIVE POWER
		5,529,566

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,529,566

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

4.9%

14 TYPE OF REPORTING PERSON

IA

CUSIP NO. 054540109

1 NAME OF REPORTING PERSON

Eric Singer

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

AF

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

USA

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
	8	-0- SHARED VOTING POWER
	9	5,529,566 SOLE DISPOSITIVE POWER
	10	-0- SHARED DISPOSITIVE POWER
		5,529,566

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,529,566

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

4.9%

14 TYPE OF REPORTING PERSON

IN



CUSIP NO. 054540109

The following constitutes Amendment No. 4 to the Schedule 13D filed by the undersigned (the "Amendment No. 4"). This Amendment No. 4 amends the Schedule 13D as specifically set forth herein.

Item 3. Source and Amount of Funds or Other Consideration.

Item 3 is hereby amended and restated to read as follows:

The Shares beneficially owned by each of Vertex Opportunities and VSO II were purchased with working capital in open market purchases, except as otherwise noted, including certain Shares which were acquired as a result of a capital contribution, as set forth in Schedule A to the Schedule 13D. The aggregate purchase price of the 722,515 Shares beneficially owned by Vertex Opportunities is approximately \$1,312,582, excluding brokerage commissions. The aggregate price of the 4,807,051 Shares contributed to and beneficially owned by VSO II is approximately \$9,379,866 excluding brokerage commissions.

Item 5. Interest in Securities of the Issuer.

Item 5 is hereby amended and restated as follows:

The aggregate percentage of Shares reported owned by each Reporting Person is based upon 113,528,503 Shares outstanding, which is the total number of Shares outstanding as of May 1, 2015, as reported in the Issuer's Quarterly Report on Form 10-Q, filed with the Securities and Exchange Commission on May 6, 2015.

A. Vertex Opportunities

(a) As of the close of business on May 19, 2015, Vertex Opportunities beneficially owned 722,515 Shares.

Percentage: Less than 1%

- (b)
1. Sole power to vote or direct vote: -0-
  2. Shared power to vote or direct vote: 722,515
  3. Sole power to dispose or direct the disposition: -0-
  4. Shared power to dispose or direct the disposition: 722,515

(c) The transactions in the Shares by Vertex Opportunities since the filing of Amendment No. 3 are set forth in Schedule A and are incorporated herein by reference.

B. VSO II

(a) As of the close of business on May 19, 2015, VSO II beneficially owned 4,807,051 Shares.

Percentage: Approximately 4.2%

- (b)
1. Sole power to vote or direct vote: -0-
  2. Shared power to vote or direct vote: 4,807,051
  3. Sole power to dispose or direct the disposition: -0-
  4. Shared power to dispose or direct the disposition: 4,807,051

(c)

The transactions in the Shares by VSO II since the filing of Amendment No. 3 are set forth in Schedule A and are incorporated herein by reference.

CUSIP NO. 054540109

C. Vertex GP

(a) Vertex GP, as the general partner of Vertex Opportunities, may be deemed the beneficial owner of the 722,515 shares owned by Vertex Opportunities.

Percentage: Less than 1%

- (b)
1. Sole power to vote or direct vote: -0-
  2. Shared power to vote or direct vote: 722,515
  3. Sole power to dispose or direct the disposition: -0-
  4. Shared power to dispose or direct the disposition: 722,515

(c) Vertex GP has not entered into any transactions in the Shares since the filing of Amendment No. 3. The transactions in the Shares on behalf of Vertex Opportunities since the filing of Amendment No. 3 are set forth in Schedule A and are incorporated herein by reference.

D. VSO GP II

(a) VSO GP II, as the general partner of VSO II, may be deemed the beneficial owner of the 4,807,051 shares owned by VSO II.

Percentage: Approximately 4.2%

- (b)
1. Sole power to vote or direct vote: -0-
  2. Shared power to vote or direct vote: 4,807,051
  3. Sole power to dispose or direct the disposition: -0-
  4. Shared power to dispose or direct the disposition: 4,807,051

(c) VSO GP II has not entered into any transactions in the Shares since the filing of Amendment No. 3. The transactions in the Shares on behalf of VSO II since the filing of Amendment No. 3 are set forth in Schedule A and are incorporated herein by reference.

E. Vertex Capital

(a) Vertex Capital, as the investment manager of Vertex Opportunities and VSO II, may be deemed the beneficial owner of the (i) 722,515 Shares owned by Vertex Opportunities and (ii) 4,807,051 Shares owned by VSO II.

Percentage: Approximately 4.9%

- (b)
1. Sole power to vote or direct vote: -0-
  2. Shared power to vote or direct vote: 5,529,566
  3. Sole power to dispose or direct the disposition: -0-
  4. Shared power to dispose or direct the disposition: 5,529,566

(c) Vertex Capital has not entered into any transactions in the Shares since the filing of Amendment No. 3. The transactions in the Shares on behalf of Vertex Opportunities and VSO II since the filing of Amendment No. 3 are set forth in Schedule A and are incorporated herein by reference.



CUSIP NO. 054540109

F. Eric Singer

(a) Mr. Singer, as the managing member of Vertex GP, VSO GP II and Vertex Capital, may be deemed the beneficial owner of the (i) 722,515 Shares owned by Vertex Opportunities and (ii) 4,807,051 Shares owned by VSO II.

Percentage: Approximately 4.9%

- (b)
1. Sole power to vote or direct vote: -0-
  2. Shared power to vote or direct vote: 5,529,566
  3. Sole power to dispose or direct the disposition: -0-
  4. Shared power to dispose or direct the disposition: 5,529,566

(c) Mr. Singer has not entered into any transactions in the Shares since the filing of Amendment No. 3. The transactions in the Shares on behalf of Vertex Opportunities and VSO II since the filing of Amendment No. 3 are set forth in Schedule A and are incorporated herein by reference.

The filing of this Schedule 13D shall not be construed as an admission that the Reporting Persons are, for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, the beneficial owners of any of the securities reported herein. Each Reporting Person disclaims beneficial ownership of such Shares except to the extent of his or its pecuniary interest therein.

(d) No person other than the Reporting Persons is known to have the right to receive, or the power to direct the receipt of dividends from, or proceeds from the sale of, the Shares.

(e) As of May 18, 2015, the Reporting Persons ceased to be the beneficial owners of more than 5% of the Shares of the Issuer.

CUSIP NO. 054540109

SIGNATURES

After reasonable inquiry and to the best of his knowledge and belief, the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: May 20, 2015

Vertex Opportunities Fund, LP

By: Vertex GP, LLC  
General Partner

By: /s/ Eric Singer  
Name: Eric Singer  
Title: Managing Member

Vertex GP, LLC

By: /s/ Eric Singer  
Name: Eric Singer  
Title: Managing Member

Vertex Special Opportunities Fund II, LP

By: Vertex Special Opportunities GP II, LLC  
General Partner

By: /s/ Eric Singer  
Name: Eric Singer  
Title: Managing Member

Vertex Special Opportunities GP II, LLC

By: /s/ Eric Singer  
Name: Eric Singer  
Title: Managing Member

Vertex Capital Advisors, LLC

By: /s/ Eric Singer  
Name: Eric Singer  
Title: Managing Member

/s/ Eric Singer  
ERIC SINGER

CUSIP NO. 054540109

## SCHEDULE A

## Transactions in Securities of the Issuer Since the Filing of Amendment No. 3

Nature of the Transaction	Securities Purchased/(Sold)	Price Per Share(\$)	Date of Purchase / Sale
VERTEX OPPORTUNITIES FUND, LP			
Sale of Common Stock	(12,623)	3.1647	5/15/2015
Sale of Common Stock	(13,000)	3.1677	5/15/2015
Sale of Common Stock	(22,327)	3.2171	5/18/2015
Sale of Common Stock	(10,413)	3.2061	5/18/2015
Sale of Common Stock	(8,511)	3.1996	5/19/2015

## VERTEX SPECIAL OPPORTUNITIES FUND II, LP

Sale of Common Stock	(84,475)	3.1647	5/15/2015
Sale of Common Stock	(87,000)	3.1677	5/15/2015
Sale of Common Stock	(149,417)	3.2171	5/18/2015
Sale of Common Stock	(69,687)	3.2061	5/18/2015
Sale of Common Stock	(56,957)	3.1996	5/19/2015